Thrust: Representation and Transfer of Meaning

- **Unresolved research issues: Common Ground**:
  - Dimensions:
    - Ambiguity - Low/High
    - Level of Agreement - Conflicted/Unconflicted
      - explicitly recognize state
    - Importance of issues to constituents - Trade Off
      - Important/Important
      - Example of Ross - concession perception

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- **Unresolved research issues: Common Ground (cont)**:
  - Goals - importance (Commander's Intent)
  - Team knowledge
  - Team stability
  - Annonymity vs knowing originator
  - Time
  - Task Importance

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- **Unresolved research issues: Transfer of Knowledge**
  - What issues are relevant?
  - What signals are relevant to those issues?
  - What change in the state of the signals are relevant?
  - To whom?
  - When?...
  - Methods/medium (writing -cultural)

Scientific Methods

- Bottom-up -
  - Phenomena
  - Error analysis
  - Task acceptance to identify hidden intentions (eg.Geographic Boundaries - ROE)

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- **Underlying science/concepts/tools:**
  - Transactive memory
  - Convention in joint activity
  - Cognitive Task Analyses
  - Knowledge Elicitation
  - Coordinating Representations
  - Pessimistic - interesting phenomenon
  - Key phenomena
  - Error detection categorization
  - Bottom up

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- **Metrics & Measures of Effectiveness:**
  - Measures of shared understanding and time needed to achieve it.
  - Measures of effectiveness of digital decision aids
  - Degree of overlap in terminology
  - Task performance
  - Measure of agreement
  - Points of departure/dissensus
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